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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/813,940	03/30/2004	William I. Chang	M-15350 US	7479	
32605 7590 08/19/2008 MACPHERSON KWOK CHEN & HEID LLP 2033 GATEWAY PLACE SUITE 400 SAN JOSE, CA 95110			EXAMINER		
			BETIT, JACOB F		
			ART UNIT	PAPER NUMBER	
				2169	
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			08/19/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/813,940	CHANG, WILLIAM I.			
Office Action Summary	Examiner	Art Unit			
	Jacob F. Bétit	2164			
The MAILING DATE of this communication ap	pears on the cover sheet with the o	correspondence address			
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on <u>06 J</u>	lune 2008.				
	s action is non-final.				
· <u> </u>					
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-26</u> is/are pending in the application.					
4a) Of the above claim(s) <u>3-7 and 16-20</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1,2,8-15 and 21-26</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	or election requirement.				
Application Papers					
9)☐ The specification is objected to by the Examine	er.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correct	ction is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).			
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12)☐ Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 119(a)-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documen					
3. Copies of the certified copies of the price	•	ed in this National Stage			
application from the International Burea					
* See the attached detailed Office action for a list	t of the certified copies not receive	∍d.			
Attachment(s)	🗖 .				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ∐ Interview Summary Paper No(s)/Mail D				
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal F				
Paper No(s)/Mail Date	6)				

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 6 June 2008 has been entered.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 11 and 26 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 11 and 26 contain the phrase "from time to time," which is indefinite.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-2, 8-10, 14-15, and 21-23 are rejected under 35 U.S.C. 103(a) as being obvious over "A Distributed Event Logging System" published 12/03/2001, known hereafter as Jaiswal,

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in view of "NetLogger: A Toolkit for Distributed System Performance Analysis" published in

July 1998, known hereafter as Gunter and xntpd(1Mtcp), published in 1999, known hereafter as

xntpd.

Claims 1 and 14 are rejected for the following reasons:

Jaiswal teaches:

A distributed system comprising: a plurality of cooperative processes running on a plurality of

processors of a computer network to accomplish a distributed transaction, (Page 1 para 2) each

process logging in a local resource records of execution of the distributed transaction by the

process on its processor; and a search engine running on each of the plurality of

processors. (Section 5 para 2) each search engine retrieving corresponding records of execution in

response to a query regarding the distributed transaction(Section 6).

Jaiswal Fails to expressly disclose:

a system synchronizer sending a timing message to be logged to the plurality of cooperative

processes;

However, this limitation would have been obvious in view of Gunter which uses NTP and xntpd

to synchronize the time of all of the servers in a distributed processing system, and xntpd which

teaches the logging of the periodic timing messages received by servers as part of the xntpd

daemon used (monitoring option).

Gunter:

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2.1 Clock Synchronization: NTP

To analyze a network-based system using timestamps, the clocks of all systems involved must be synchronized. This can be achieved by using the Network Time Protocol (NTP) [10]. By installing a GPS-based NTP server on each subnet of the distributed system, and running the *xntpd* daemon on each host, all host clocks can be synchronized to within about 0.25 ms of each other. It has been our experience that most application-significant events can be accurately characterized by timestamps that are accurate to about 1 ms, well within NTP's tolerances. If the closest time source is several IP router hops away, NTP accuracy will be somewhat less, but probably still accurate enough for many types of analysis. The NTP web site² has a list of public NTP servers that one may be able to connect and synchronize with.

Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to include these features, as they provide more accurate timing to provide more accurate analysis.

Claims 2 and 15 are rejected for the following reasons:

A distributed system as in claim 1, wherein the query is issued to the processors as a distributed guery. (Section 6)

Claims 8 and 21 are rejected for the following reasons:

A distributed system as in claim 1, wherein the query is issued from a client which merges the results received from search engines responding to the query. (Section 6, Paras 2 and 4)

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Claims 9 and 22 are rejected for the following reasons

A distributed system as in claim 8, wherein the client applies program rules on the merged results to determine correct operation of the distributed system. (Section 1 para 2)

Claims 10 and 23 are rejected for the following reasons:

A distributed system as in claim 1, wherein each search engine generates indices to the records of execution.(Section 4)

6. Claims 11-12 and 24-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jaiswel in view of "NetLogger: A Toolkit for Distributed System Performance Analysis" published in July 1998, known hereafter as Gunter and xntpd(1Mtcp), published in 1999, known hereafter as xntpd in view of US 6647517 files Apr. 27, 2000, known hereafter as Dickey.

Claims 11-12, and 24-25 are rejected as Jaiswel as modified, teaches periodically backing up log files and stating a new file in section 4 para 2, however Jaiswel as modified, fails to teach how the logs are stored. Dickey col 2 lines 1-14 teaches storing initially in memory, Col 5 lines 31-39 teaches offloading to a disk storage. Thus it would have been obvious to one of ordinary skill in the art at the time of the invention to include these features, as using memory is fast, and using disk memory for old or backup data is cheaper.

7. Claims 13 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jaiswel in view of "NetLogger: A Toolkit for Distributed System Performance Analysis" published in

July 1998, known hereafter as Gunter and xntpd(1Mtcp), published in 1999, known hereafter as xntpd in view of US 6647517 files Apr. 27, 2000, known hereafter as Dickey in further view of US 6330570, filed Feb 26, 1999 known hereafter as Crighton or US 6,618,822 filed Jan 3, 2000 known hereafter as Loaiza.

Jaiswel as modified, teaches the claims upon which claims 13 and 26 are dependent, but fail to expressly disclose the merger of the indices in memory and in the disk storage. This is taught in Crighton Col 6 lines 40-48 which teaches an append type backup, by appending in this manner would cause the current file (the one stored in memory in this case) to be appended (and thus merged with) to the backup cope(the indices on the disk) Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to add this feature do to the advantage of providing a backup contains all previous log data) In the alternative, Loaiza also teaches this limitation as it teaches querying ranges of time in col 16 lines 1-14, thus in the instance were the range included both to backup and the current file the two would be merged as query results are merged as discussed in claim 8. Thus it would have been obvious to one of ordinary skill in the art at the time of the invention to include this feature to provide the advantage of narrowing the search to a date range.

Response to Arguments

8. Applicant's arguments filed 6 June 2008 have been fully considered but they are not persuasive.

It is noted that the applicant states, "The Examiner rejected Claims 1-2, 8-10, 14-15 and 21-23 under 35 U.S.C. § 102(b) as being anticipated by the article "A Distributed Event Logging

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System" ("Jaiswal"), in view of the article "Netlogger: a Toolkit for Distributed System

Performance Analysis" ("Gunter") and the description for xntpd (1Mtcp) ("xntpd"). However,

these claims are rejected under 35 U.S.C. 103(a) as being obvious in view of the cited references.

In response to the applicant's arguments that Jaiswal does not teach logging "records of execution of distributed transactions", the arguments have been fully considered, but are not deemed persuasive. It is noted that the applicant's characterization of Jaiswal as simply "logging system performance data" appears to be incorrect. The second paragraph of Jaiswal says the log can be used for monitoring and troubleshooting and to deter and detect attempts to break into the system. Further, section 4 of Jaiswal goes into what is logged in the system including a timestamp, process ID (PID), user, host, process, and message. All of this information is logged and capable of being queried. The bottom of page 4 gives an example of some transactions that have been logged in the log file. In the second paragraph of section 5, an example query is put forth that is a query for all logs generated by the apache application. Therefore, it is believed that Jaiswal does in fact teach log records of the execution of distributed transactions.

Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jacob F. Bétit whose telephone number is (571)272-4075. The examiner can normally be reached on Monday through Friday 10:30 am to 6:30 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tony Mahmoudi can be reached on (571) 272-4078. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

jfb 17 Aug 2008

/Tony Mahmoudi/ Supervisory Patent Examiner, Art Unit 2169